

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) A tube unit used for connecting internal equipment and external equipment, comprising:
 - an inner tube which lets liquid flow between the internal equipment and the external equipment;
 - a cable including an electric wire connected to the internal equipment; and
 - an outer tube which accommodates the inner tube and the cable.
2. (Original) A tube unit according to Claim 1,
 - wherein the internal equipment is one of (a) a part of one of artificial internal organs and a ventricular assist device that is implanted in a living body and (b) equipment that is implanted in a living body by medical treatment.
3. (Original) A tube unit according to Claim 1,
 - wherein the external equipment is equipment, out of equipment that is used as one of artificial internal organs, a ventricular assist device, and equipment used in medical treatment, that is placed outside of a living body.
4. (Original) A tube unit according to Claim 1,
 - wherein the cable is one of a power cable for driving the internal equipment and a cable for transmitting a signal for controlling the internal equipment and/or a signal detected by the internal equipment.
5. (Original) A tube unit according to Claim 1,
 - wherein the inner tube is one of a tube for supplying medication to an affected part and a tube for supplying the internal equipment with a lubricant

and/or a coolant, which is/are required for proper operation of the internal equipment.

6. (Original) A tube unit according to Claim 1,
wherein a channel through which a liquid can flow is formed by the inner tube.

7. (Original) A tube unit according to Claim 1,
wherein a wire for preventing elongation of the inner tube and the cable is accommodated in the outer tube.

8. (Original) A tube unit according to Claim 1,
further comprising caps that are respectively attached to an outside of an engaging part where one end of the outer tube engages a socket for the internal equipment and to an outside of an engaging part where another end of the outer tube engages a socket for the external equipment.

9. (Original) A tube unit according to Claim 1,
further comprising protective tubes that engage the caps, are formed of an elastic material, and are attached to an outside of the outer tube.

10. (Currently amended) An artificial internal organ system, including a tube unit ~~according to any of Claims 1 to 9~~ used for connecting internal equipment and external equipment, the tube unit comprises:

an inner tube which lets liquid flow between the internal equipment and the external equipment;

a cable including an electric wire connected to the internal equipment; and

an outer tube which accommodates the inner tube and the cable.

11. (Original) A tube unit used for connecting a blood pump and a controller for controlling the blood pump, comprising:

an inner tube for circulating a liquid between the blood pump and the controller;

a cable including an electric wire connected to the blood pump; and

an outer tube which accommodates the inner tube and the cable.

12. (Original) A tube unit according to Claim 11,
wherein the tube unit comprises two inner tubes.

13. (Original) A tube unit according to Claim 11,
wherein the liquid circulated by the inner tube is one of water, a disinfectant, and a physiological saline solution.

14. (Original) A tube unit according to Claim 11,
wherein the inner tube is made of one of polycarbonate urethane, silicone, and polytetrafluoroethylene.

15. (Original) A tube unit according to Claim 11,
wherein the inner tube is one of a double-layer tube that has polyvinylidene fluoride on an inside and thermoplastic polyurethane on an outside and a double-layer tube that has polyvinylidene fluoride on an inside and polycarbonate urethane on an outside.

16. (Original) A tube unit according to Claim 11,
wherein the electric wire is one of a electric wire for driving the blood pump and a electric wire for transmitting a signal for controlling the blood pump and/or a signal detected at a position of the blood pump.

17. (Original) A tube unit according to Claim 11,
wherein the outer tube is made of a biocompatible material.

18. (Original) A tube unit according to Claim 11,
wherein a surface of the outer tube is subjected to a flocking process.

19. (Original) A tube unit according to Claim 11,
wherein an inside of the outer tube is filled with silicone gel.

20. (Currently amended) A blood pump system, comprising:
a blood pump;
a controller for controlling the blood pump; and
a tube unit ~~according to any of Claims 11 to 19~~ used for connecting the blood pump and the controller for controlling the blood pump, the tube unit comprises:
an inner tube for circulating a liquid between the blood pump and the controller,
a cable including an electric wire connected to the blood pump, and
an outer tube which accommodates the inner tube and the cable.